21(7)

AUTHORS: Koval'skiy, N. G., Podgornyy, I. M., SOV,

SOV/56-35-4-16/52

Khvashchevskiy, S.

TIPLE: The Energy of X-Ray Radiation Emitted by a Strong Pulsed

Discharge in Hydrogen (Energiya rentgenovskogo iz-

lucheniya, ispuskayemogo moshchnym impul'snym razryadom

v vodorode)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958,

Vol 35, Nr 4, pp 940 - 946 (USSR)

ABSTRACT: Already in 1953, after the discovery of hard X-ray

radiation accompanying an extensive discharge in hydrogen or deuterium, tests were carried out for the purpose of estimating the limits of this energy spectrum. For this purpose the filtering method, the method of measuring the length of recoil electron tracks in thick nuclear emulsions, the method of the shielded recorder, and the method of the nuclear photoeffect (reaction (\gamma,n) on Be) were employed. In the present paper the authors employed the method

of the track length of recoil electrons in a cloud

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The Energy of X-Ray Radiation Emitted by a Strong Pulsed SOV/50-55-4-16/52 Discharge in Hydrogen

chamber. For the purpose of determining the energy of X-ray quanta according to electron energy it is necessary to know whether the electrons originate from a photo- or a Compton effect. Conditions are illustrated by figure 1 in form of a diagram. Within the range of 200 - 400 keV the photoeffect in air may be neglected as against the Compton effect, but this is not the case with the formation of photoelectrons on the glass walls of the chamber. For the production of the pulsed discharge a battery consisting of 12 condensers of the type $\dot{M}\text{-}3/50$ (36 $\mu\text{F}) was used; the$ discharge took place in a porcelain tube of 1 m length and 17 cm diameter; hydrogen pressure in the tube amounted to 6.10^{-2} torr. With a voltage of 40 kV (200 kA) on the condenser battery, this pressure permitted maximum discharge amperage. Figure 2 shows a block scheme of the test device which is described with all details. Measuring results are shown by 3 diagrams (Figs 4-6): Figure 4 shows the energy distribution

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The Energy of X-Ray Radiation Emitted by a Strong Pulsed SOV/56-35-4-10/32 Discharge in Hydrogen

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825620006-2

influence of X-ray radiation; figure 5 shows the energy distribution of the electrons formed by $X-\operatorname{ray}$ radiation in the tube for U = 240 kV, figure 6 shows the same for U = 205 max kV. The following summary of investigation results is given: 1) The times of the formation of neutron- and X-ray-radiation in the discharge process coincide. 2) The deuterons responsible for the occurrence of neutrons in deuterium discharges are accelerated in the direction of the cathode; the intensity maximum of X-ray and neutron radiation is in the zone near the anode. 3) X-ray- and neutron radiation is observed in one and the same zone of the primary gas pressure in the discharge tube. 4) By estimation of the maximum deuteron energy a value of 250 keV is obtained; this value is in good qualitative agreement (within the limits of measuring errors) with the energy limit of the X-ray spectrum (320 kV). The authors thankL.A.Artsimovich

Card 3/4

and S.Yu. Luk'yanov for valuable discussions, and T.L.Asatian for his help in preparing the cloud chamber. There are 6 figures and 8 references, 4 of which are Soviet.

9(3) AUTHORS:

Podgornyy, I. M., Koval'skiy, H. G., Pal'chikov, V. Ye.

TITLE:

High Power Pulse Discharge Electrons Generating Hari X-Radistion (Elektrony vyzyvsyashrojye zhestkoye rentgenovskoye izlucheniye moshchnykh impulisnykh razryadov)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 5, pp 825-827 (USSR)

ABSTRACT:

The present paper reports on the energy of electrons generating hard x-radiation.

The discharge was produced in a porcelain chamber of 175 mm diameter and 1000 mm height. The discharge battery consisted of a condenser battery of 36 µF capacity. The experiments were carried out in hydrogen at an initial pressure of 6.10⁻² torr which corresponds to the maximum yield of hard X-ray quanta. The presence of X-ray pulses was controlled by a scintillation recording system with pulse oscillograph. This apparatus is described in short. In order to find the dispersion curve of the spectrograph, the electron trajectories had to be constructed graphically. It is not difficult to find the maximum value of the energy which had to be acquired by the electrons when moving along the discharge axis. The experimental data available proved

Card 1/2

SOV/20-123-5-15/50 High Power Pulse Discharge Electrons Generating Herri X-Rediation

that the maximum energy of the electrons amounts to 300 kev. A beam of 100 kev electrons was used for the control of the calculated electron trajectories. Thus, the following facts were proved by direct experiments: The electrons which cause the nard X-radiation in a powerful pulse discharge in hydrogen are accelerated along the axis of the discharge chamber. The recorded maximum energy of the electrons amounted to 300+20 kev which agrees well with the results obtained by measurements of the maximum energy of the X-ray spectrum. There are 1 figure and 4 Soviet references.

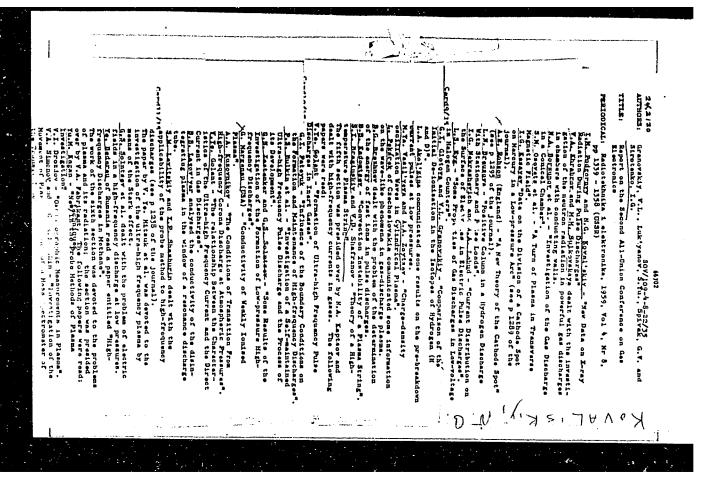
PRESENTED:

July 31, 1958, by L. A. Artsimovich, Academician

SUBMITTED:

July 25, 1958

Card 2/2



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All Tarth

S/056/60/038/005/012/050 B006/B070

AUTHORS:

Koval'skiy, N. G., Podgornyy, I. M., Stepanenko, M. M.

TITLE:

Investigation of Fast Electrons in Strong Pulse Discharges

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960, Vol. 38, No. 5, pp. 1439-1445

TEXT: At first, the authors describe the experimental arrangement and the method of measurement. The apparatus used was essentially similar to the pulse generator used for earlier investigations. The condenser bank consisted of 12 condensers of the type MM-3/50 (IM-3/50) with a total capacity of 36 µF. The discharge chamber was of porcelain, and had a length of 1 m and a diameter of 17 cm. During one discharge, the condenser bank supplied up to 45 kv. The discharge chamber was evacuated after each discharge and filled anew with gas (hydrogen, deuterium, or spectrally pure inert gases). The authors (partly in collaboration with others) had observed in earlier studies (Refs. 1-4) the appearance of a hard X-radiation and an acceleration of electrons (up to (300±20)kev for an initial discharge voltage of 40 kv) while investigating controlled

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Investigation of Fast Electrons in Strong Pulse Discharges

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thermonuclear reactions. Following these studies, the authors investigated the dependence of the maximum electron energy on the parameters of the discharge. The dependence of the limiting energy in the electron spectrum on the pressure of hydrogen in the discharge chamber (in the range $4.10^{-3} \le p_o \le 6.10^{-1}$ torr) was determined by means of a magnetic spectrograph, and is shown in Fig. 1. In the range $2.10^{-2} \le p_o \le 1.3 \cdot 10^{-1}$ torr the curve shows a high maximum; the peak value of the electron energy is 295kev. The pressure dependence of the electron energies is analogous to the pressure dependence of neutron yield in discharges in deuterium, but deviates somewhat from the pressure dependence of the intensity of the hard X-radiation. The dependence of the limiting electron energy (E₀) on the initial voltage U₀ was also investigated (for $p_0 = 7.10^{-2} torr$, in H₂). Fig. 2 shows $E_0(U_0)$ in the range $30 < U_0 \le 45$ kv. E_0 steeply rises with U_0 up to $U_0 = 40$ kv, and then falls. Further, E_0 was determined as a function of the strength of an external magnetic field in the range 0 < H < 150 oe (Fig. 3). E falls from 300 to 150 kev when the magnetic field increases from 0 to 30 ce; with a further increase of the field, E_0 becomes less

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Investigation of Fast Electrons in Strong Pulse Discharges

S/056/60/038/005/012/050 B006/B070

than 50 kev. The radial distribution of the fast electrons accelerated along the discharge axis was studied by means of a special collimator schematically shown in Fig. 4. Fig. 5 shows the radial distributions determined for $p_0 = 7.10^{-2}$ torr and three different thicknesses of the Al filter (30, 54, and 75 μ). Electron energies of 80, 110, and 140 in

Al filter (30, 54, and 75µ). Electron energies of 80, 110, and 140 kev, respectively, correspond to these thicknesses. The half width of the distribution curve decreases with increasing thickness of the filter. This shows that the non-equilibrium electron group is accelerated in the immediate neighborhood of the axis. Numerical results of the investigations of fast electrons in H₂, D₂, and the inert gases are collected in

a table. The investigations led to the conclusion that in high-power pulse discharges there exist two groups of non-equilibrium electrons; the first group having energies of up to 100 kev is accelerated by the electric fields occurring with the pinch effect, while the second group, which has energies of up to 300 kev, is accelerated in the local electric thank S. Yu. Luk'yanov for discussions of the plasma column. The authors table, and 8 references: 7 Soviet and 1 Italian.

Card 3/4

KOVAL'SKIY, N. G., Cand Phys-Math Sci (diss) -- "High-speed electrons causing hard X-ray irradiations of large impulse discharges". Moscow, 1960. 13 pp (Moscow State U im M. V. Lomonosov, Sci Res Inst of Nuclear Phys), 130 copies (KL, No 14, 1960, 126)

GORKLIK, L.L.; KOVAL'SKIY, N.G.; PODGORNYY, I.M.; SINITSYN, V.V.

Study of the escape of plasma through the magnetic gaps of traps with a field intsenifying toward the periphery. Dokl. AN SSSR 147 no.3:576-579 N '62. (MIRA 15:12)

1. Predstavleno akademikom L.A. Artsimovichem.
(Plasma (Ionized gases)) (Magnetic fields)

ACCESSION NR: AT4025318

S/0000/63/000/000/0270/0273

AUTHORS: Gorelik, L. L.; Koval'skiy, N. G.; Podgorny*y, I. M.; Sinitsy*n, V. V.

TITLE: Investigation of plasma in an "Orekh" magnetic trap with the aid of special bolometers

SCURCE: Diagnostika plazmy* (Plasma diagnostics); sb. statey. Moscow, Gosatomizdat, 1963, 270-273

TOPIC TAGS: plasma magnetic field, magnetic mirror, plasma confinement, bolometer, thin film

ABSTRACT: The spatial and time distributions of heat flow from the wall of a magnetic-trap vacuum chamber with a field that increases towards the periphery were investigated to ascertain the influence of the region near the point of zero field in the escape of charged particles at low plasma concentrations, and also the character of

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ACCESSION NR: AT4025318

time variation of the width of an annular magnetic slot. specially developed bismuth bolometers were used to measure the heat flow from an "Orekh" magnetic trap. The bolometer constructions are described. Measurements of the magnetic gap have shown that the width of the gap is larger at small values of the magnetic field, and the experimentally observed broadening of the magnetic gap can be sufficiently well explained by classical diffusion. The escape of plasma particles was measured by introducing a metallic cylinder into the trap and measuring the heat escaping through the magnetic gaps with germanium borometers. In the case of the first configuration of the magnetic field in the trap it was found that the particle escape from the system is due to loss of the adiabatic invari-, ant on entering the region of weak magnetic field near the center, whereas in the case of the second configuration the plasma is essentially concentrated in the region of the weak magnetic field near the center. Thin film bolometers were also used to measure the escape of heat from the trap for plasma of high density (~1014 cm-3)

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ACCESSION NR: AT4025318

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and low density $(10^{12} \text{ cm}^{-3})$. The escape times were found to be 60--70 and 150--200 microseconds, respectively. The bolometers described can be used to solve various problems in plasma physics.

ASSOCIATION: None

SUBMITTED: 190ct63

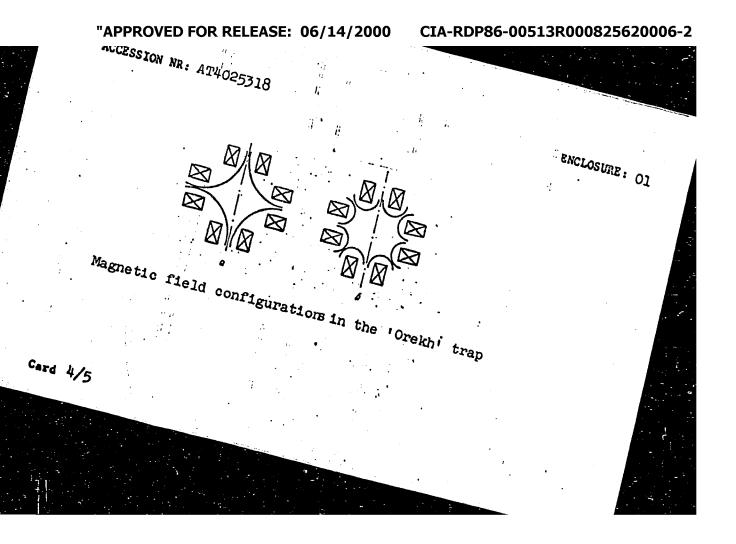
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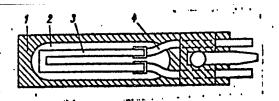
ENCL:

SUB CODE: ME

NR REF SOV: 004

OTHER:





Construction of bismuth bolometer:

14

i - frame, 2 - oxidized-aluminum foil, 3 - thermoresistance of lead-bismuth alloy, 4 - silver leads

Card 5/5

ACC NR:

AP6036031

SOURCE CODE: UR/0057/66/036/011/1976/1983

AUTHOR: Koval'skiy, N. G.; Sumarokov, V. N.

ORG: none

TITLE: Investigation of plasma in a magnetic trap having opposed magnetic

fields

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 11, 1966, 1976-1983

TOPIC TAGS: plasma magnetic field, plasma velocity, plasma, magnetic field, magnetic trap, plasma lifetime, collision ionized plasma, hydrogen plasma, magnetic field plasma effect, plasma physics, plasma research, plasma structure

ABSTRACT: The behavior of plasma in a trap having opposed fields was studied for a case of when the typical time period for collision processes in (ion-ion coulomb collisions and proton charge exchanges by neutral hydrogen atoms) is only a few milliseconds. A plasma bunch was injected into the trap through a ring diaphragm set on the axis of the system in the region of the magnetic gap.

Card 1/2

UDC: 533.9

ACC NR: AP6036031

The velocity of the bunch was $1-2 \cdot 10^7$ cm/sec, and the total energy of the plasma injected into the trap was 0.3 j. Experiments showed that at the initial moment the plasma fills the central region of the trap near the point of zero magnetic field intensity. At a field intensity of 3000 oe, the concentration of plasma was $\sim 3 \cdot 10^{11}$ cm⁻³. As a result of special efforts the concentration of impurity atoms and neutral hydrogen in the chamber did not exceed $5 \cdot 10^9$ cm⁻³. It is shown that protons leave the trap in the region of the magnetic ring gap with an average transverse energy of ~ 50 ev. This demonstrates the effectiveness of the conversion of directed plasma bunch energy into a Larmor ion rotation in interaction with opposed magnetic fields. The containment time of particles with a given average energy exceeds by one order the time of flight through the region affected by the magnetic field. Plasma lifetime was found to be strongly affected by the intensity of the magnetic field. Orig. art. has: 2 tables and 4 figures. [SP]

SUB CODE: 20/SUBM DATE: 04Dec65/ORIG REF: 002/OTH REF: 006/

Card 2/2

L 45807-66 EVT(1)/T/EVP(k)

ACC NRI AR6023300

SOURCE CODE: UR/0058/66/000/003/H070/H070

AUTHOR: Koval'skiy, N. I.

66

TITLE: Ultrasonic field of plane radiators

B

SOURCE: Ref zh. Fizika, Abs. 3Zh487

REF. SOURCE: Tr. 1-y Mezhvuz. nauchn. konferentsii po primeneniyu molekul. akust. k issled. veshchestva i v nar. kh-ve. Tashkent, 1964, 277-288

TOPIC TAGS: ultrasonic field, ultrasonic wave propagation, standing wave, traveling wave, pressure, ultrasonic velocity

ABSTRACT: Depending on the number and standing waves can arise in the vessel. The formation of standing waves occurs not only upon reflection from the partition, but also in the case when head-on propagation of radiation from two sources. Expressions are derived for the sound pressure and the vibrational velocity of the field of plane waves, produced by radiators built into the walls of a cubic vessel, in the case of head-on and transverse radiation directions. Cases when there are 1, 2, 3, 4, and 6 radiators are considered. The calculations were made without account of the in-

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ACC NRI AR6023300

2

fluence of the side walls, on the basis of a solution of the one-dimensional wave equation. The radiators are assumed to be identical and to operate in phase. The positions of the minima and maxima of the energy density are obtained for the cases under consideration. With decreasing distance between the radiator and reflector, or between opposing radiators, the volume of the irradiated liquid decreases, and the energy density in the vessel increases and may reach large values. Waves reflected from the lateral walls of the vessel increase the minimum values of the energy, while the growing friction and the associated energy losses decrease them. A. Shpil'kin, [Translation of abstract]

SUB CODE: 20

Card 2/2

GAFUROV, A.T.; AYKHODZHAYEV, T.T.; ABDURASHITOV, K.; TURSUNOV, S.; KOVAL'SKIY, N.I.; MULLOKANDOV, R.N.; REZNIK, G.P.; YAKUĐOV, L.M.

Change of certain characteristics of cotton and kenaf under the action of ultrasound. Prim. ul'traakust. k issl. veshch. no.14: 121-127 '61. (MIRA 14:12)

(Ambary hemp) (Cotton)
(Ultrasonic waves--Industrial applications)

3419 KOVAL'SKIY, N.N.

Apparaty i. oborudovaniye dlya okrasochn ykh rabot. m., 1954. 24s s. ill., 1 l. chert. 20sm. (M-vo stankostroit. i. instrum. Prom-sti SSSR Tsentr byruo takhn informatsii. Obmen opytom v stankostroit i instrum. Prom-sti. No. 16). 1.500 ekz. Bespl - sost. ukazan NA oborote tit. 1. (54.15028 ZH) 621.795.3

KOVALSKIY, N.M.

USER/ Engineering - Assembly conveyers

Card 1/1

Pub. 103 - 1/22

Authors

Gavrilyuk, A. M., and Koval'skiy, N. N.

Title

Technology for painting machine-tools in a continuous mass production

Periodical !

Stan. 1 instr / 6, 1-4, June 1955

Abstract

The engineering and technical personnel of the milling machine factory in Gorki, designed a pulsating-type conveyer for the assembly and painting of machine components during continuous mass production. A description of the operation and construction of the above mentioned conveyer is given, and the chemical composition of dyes and coatings, is specified. Drawings; illustrations.

Institution:

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Submitted:

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KOVAL'SKIY, N.N.

KOVAL'SKIY, N.N.

Mechanizing the painting operations in the machine-tool industry.

Stan. i instr. 28 no.12:30-32 D '57.

(Paint machinery)

(Paint machinery)

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Equipment for finishing operations used in the Czecheclevekkin machinery industry, Biul, tekh, -akon, inform. nc. 4:76-79 150.

(Czecheslovekis--Pachinery industry)

(Czecheslovekis--Pachinery industry)

KOVAL'SKIY, N.N.

Polishing equipment used in finishing operations in machine manufacturing. Lakokras.mat.i ikh prim. no.5:49-52 '60. (MIRA 13:11) (Machinery--Painting) (Grinding and polishing)

KOYAL SKIY, N. N.

Alkyd-styrene paint materials and prospects for their use in machinery manufacturing. Lakokras.mat.i ikh prim. no.5:78-79 '60. (MIRA 13:11)

(Machinery--Painting)

Painting Mr '60.	g machine tools. Stan.i instr. 31 no.3:26-28 (MIRA 13:6)
	(Painting, Industrial)

KOVAL'SKIY, N.N.; PADEYSKIY, V.N.

Use of lacquers and paints in corrosion control. Lakokras.mat.i ikh.prim. no.1:60-67 '61. (MIRA 14:4) (Corrosion and anticorrosives) (Paint materials)

Mechanization and automation of processes for applying of corrosive coatings in the machinery industry. Mashinostroitel' no.5:12-14 My '61. (MIRA 14:5) (Protective coatings) (Automation)

RABKIN, Yefim Borisovich, prof.; SOKOLOVA, Yelena Georgiyevna, kand. med. nauk; FRID, Yudol'f Vladimirovich, kand. tekhn. nauk; KOVAL'SKIY, Nikolay Nikolayevich, inzh-khim.; CHERNIGOVSKIY, V.N., akademik, red.; KARPOVA, N.L., red.

[Aid for efficient color schemes; with colorimetrical index of samples] Rukovodstvo po ratsional nomu tsveto-vomu oformleniiu; s naborom kolorimetrirovannykh obraztsov tsvetov. Moskva, Izd-vo "Transport," 1964. 46 p.
(MIRA 17:4)

1. Predsedatel' komissii po fiziologicheskoy optike pri Institute fiziologii im. I.P.Pavlova AN SSSR (for Chernigovskiy).

KOVAL'SKIY, N.N., inzh.

Automation and mechanization of the painting of machines. Vest.mashinostr. 45 no.10:52-53 0 '65.

(MIRA 18:11)

ASHURKOV, L.M., spets. mashinstr.; BLIZHEVSKIY, L.A., spets. mashinst.; VASIL'YEVA, Ye.N., spets. mashinstr.; KOVAL'SKIY, N.N., spets. mashinstr.; MOKIN, M.I., spets. mashinstr.; SMIRNOV, V.P., spets. mashinstr.; BOBKOV, L.S., retsenzent; VETUKHNOVSKIY, Z.B., retsenzent; MAKSINYAK, G.P., retsenzent; MIKHAYLOVSKIY, V.I., retsenzent; SHVYRYAYEV, G.K., retsenzent; VALETOV, V.V., red.; RADAYEVA, Z.A., red. izd-va; TIKHANOV, A.Ya., tekhn. red.

[Norms for the consumption of materials in the manufacture of machinery; a handbook] Normirovanie raskhoda materialov v mashinostroenii; spravochnik. Pod red. V.V.Valetova. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit.lit-ry. Vol.2. 1961. 479 p. (MIRA 15:2)

(Machinery industry)

KOVAL'SKIY, N. V. [Koval's'kyi, M. V.]; KREMENTULO, Yu. V.; REUTSKIY, V. Ye. [Reuts'kyi, V. IU.]; SIGOV, B.A. [Sihov, B.O.]

Digital program control system for a milling machine with a step-wise power motor. Avtomatyka no.2:81-83 '60.

(MIRA 13:7)

1. Institut elektrotekhniki AN USSR.
(Milling machines) (Automatic control)

Network for coincidence of the presence or absence of two zero output potentials. Avtomatyka 8 no.1:58 '63. (MIRA 16:3) (Electronic computers--Circuits) (Pulse circuits)

KOVAL'SKIY, N.V. [Koval's'kyi, M.V.] (Kiyev); REUTSKIY, V.Ye.

[Reuts'kyi, V.IU.] (Kiyev)

Concerning the recording and reproduction of a bipolar digit-pulse signal from one track of a magnetic tape. Avtomatyka no. 5:56-59
'60. (MIRA 14:4)

(Magnetic recorders and recording)

KOVALSKIY N.V

9,7910 (1024)

27586 \$/102/61/000/001/004/005 D274/D303

AUTHORS:

Reuts'kyy, V.Yu. and Koval's'kyy, M.V. (Kyyiv)

TITLE:

Compact recording and reproduction of digital pulse

signals on standard magnetic tape

PERIODICAL:

Avtomatyka, no. 1, 1961, 65-66

TEXT: A method of recording and reading digital pulses is described which permits accommodating 8 separate recording channels on two tracks of standard magnetic tape of 6.35 mm width. This is important for automatic control of machine tools (cutters, etc.) which involves three controlled parameters, requiring three tracks (whereas standard magnetic tape functions properly with two tracks only). The method consists in orthogonal (cross-wise) recording of the program signal of two parameters on one track, and on the other - the recording of the third-parameter signal and two channels for command signals. Tests have shown that the signal of the second (noisy)

Card 1/2

27586 S/102/61/000/001/004/005 D274/D303

Compact recording ...

channel does not exceed the noise level of the tape. Thus, the dualtrack, orthogonal, bi-polar, recording on standard magnetic tape can be also used as an intermediate (temporary) memory in the digital control of machine tools and other systems. In the tests, standard heads of the tape-recorder D-9 were used. The grooves of the magnetic heads were reduced to 4 microns. The principle of orthogonal recording consists in making the grooves perpendicular to each The first magnetic head records the program signal and sign (of signal) of one parameter, and the second head records the signal of the second parameter on the same track as the first head. In reading the signals, the first head reads both (first and second) signals, but, as the ratio between the amplitudes is very high, the signal of the secondary parameter does not exceed the noise level of the tape. This ratio is illustrated by a figure which shows that the ratio of the area of the groove of the first head to the area common to both grooves (of both heads) is 750. The second track is used in an analogous manner. There are 2 figures and 2 Soviet-bloc references.

SUBMITTED:

June 17, 1960

KOVAL'SKIY, N.V. [Koval's'kyi, M.V.] (Kiyev); REUTSKIY, V.Ye. [Reuts'kyi, V.IU.] (Kiyev); SICOV, B.A. [Sihov, B.O.] (Kiyev)

Reversive ring-type commutators. Avtomatyka no.1:74-78 '62.

(Switching theory)(Electric relays)

KOVAL'SKIY, Nikolay Vladimirovich; KREMENTULO, Yuriy Vasil'yevich; REUTSKIY, Vadim Yefimovich; SIGOV, Boris Alekseyevich; IVAKHNENKO, A.G., red.; KOVAL'CHUK, A.V., red.; GUSAROV, K.F., tekhn. red.

[Numerical programmed control] TSifrovoe programmoe up-ravlenie [By] N.V.Koval'skii i dr. Pod red. A.G.Ivakhnenko. Kiev, Gos. izd-vo tekhn. lit-ry USSR, 1962. 124 p.

(MIRA 15:3)

1. Chlen-korrespondent Akademii nauk USSR (for Ivakhnenko).
(Machine tools--Numerical control)

KOVAL SKIY, P.A., prof., doktor biolog. nauk; SOLOVEY, A.S., red.; FEDOTOVA, A.F., tekhn. red.

[Specialized histology of domestic animals, with the elements of embryology] Chastnaia gistologiia domashnikh zhivotnykh s osnovami embriologii. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1957. 271 p.

(Veterinary histology) (Veterinary embryology) (MIRA 11:7)

KOVALSKIN P.A.

KOWALSKIJ, P.; GLUSCHTSCHENKO, G.

On nerve structures of the periosteum. Acta Morph. Acad. Sci. Hung. 11 no.2:167-178 62.

1. Institut fur Histologie, Landwirtschaftliche Hochschule, Bjelaja Cerkowj, UdSSSR (Direktor: Prof. P. Kowalskij)

(PERIOSTEUM innervation)

KOVAL'SKIY, P.A.

"Practical work in histology and embryology" by Z.S.Katsnel'son, and I.D.Rikhter. Reviewed by P.A.Koval'skii. Nauch.dokl.vys. shkoly; biol.nauki no.4:208-209 '62. (MIRA 15:10) (HISTOLOGY.—STUDY AND TEACHING) (EMBRYOLOGY.—STUDY AND TEACHING) (KATSNEL'SON, Z.S.)(RIKHTER, I.D.)

IVANOV, Ivan Filippovich, prof.; KOVAL'SKIY, Pavel Alekseyevich, prof.; BYRDINA, A.S., red.; DEYEVA, V.M., tekhn. red.

[Histology and the principles of embryology of domestic animals] Gistologiia s osnovami embriologii domashnikh zhi-votnykh. Moskva, Sel'khozizdat, 1962. 678 p. (MIRA 16:6) (Histology) (Veterinary embryology)

MOVAL'SKIY, P.F.

BEZBORODOVA, G.B.; GOLOVCHENKO, B.A.; KOVAL'SKIY, P.F.; NECHIPORENKO, Yu.I.;

RUDNITSKIY, A., redaktor; GOLOVCHENKU, G.; ekhnicheskiy redaktor.

[Dump trucks] Avtomobili-semosvaly. Kiev, Gos. izd-vo tekhn. lit-ry

USSR, 1953. 129 p.

(Dump trucks)

(MIRA 8:2)

KOVAL'SKIY, P.F. [Koval'd'kyi, P.F.]

Put work achievements of inventors and efficiency promoters into practice. Mekh. sil'. hosp. 9 no.2:1-3 F '58. (MIRA 11:3)

l.Golovniy inzhener po vinakhidnitstvu Ministerstva sil's'kogo gospodarstva URSR.

(Agricultural machinery)

Ukrainian inventors and efficiency promoters are striving for higher labor productivity. Mekh. Sil'. hosp. 11 no.5:12-13 My '60.

(MIRA 14:3)

1. Glavnyy inzh. Ministerstva sel'skogo khozynystva USSR po izobretatel'stvu i ratsionalizatsii.

(Ukraine-Agriculture-Labor productivity)

KOVAL'SKIY, P.F. [Koval'skyi, P.F.]

Made by skillful rural workers. Mekh. sil'. hosp. 14 no.5: 14-16 My '63. (MIRA 16:10)

1. Nachal'nik otdela izobretatel'stva i ratsionalizatsii Ukrainskogo respublikanskogo ob"yedineniya "Ukrsil' gosptekhnika."

9.4230 (1532)

30098 \$/057/61/031/011/013/019 B125/B102

AUTHORS:

Volodichev, N. N., Grishin, V. K., Koval'skiy, S., Lobanov, Yu. N., and Savenko, I. A.

TITLE:

The magnetic-field characteristics of a strongly focusing accelerator with spiral sectors

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 31, no. 11, 1961, 1350-1357

TEXT: The authors' experimental study of the possibility of generating a field of the type $H = H_0 \left(\frac{R}{R} \right)^k F \left(N0 - N \lg \ln \frac{R}{R_0} \right)$

 $H_{s}|_{s=0} = H_{0} \left(\frac{R}{R_{0}}\right)^{k} F\left(N\theta - N \lg \xi \ln \frac{R}{R_{0}}\right),$ $H_{R}|_{s=0} = H_{0}|_{s=0} = 0,$ (2)

by means of spiral sectors had the following aims: Guarantee of a radial dependence of the field $\langle H_z \rangle = H_0 (R/R_0)^k$, study of the modulation frequency F, of procedures for its correction and of the possibility of determining a sufficiently high modulation coefficient $A \simeq 2$. In the determining a sufficiently high modulation coefficient modulates part of arrangement described, a magnetic three-sector element modulates part of Card $1/\beta$ -

X

30098 5/057/61/031/011/013/019 B125/B102

The magnetic-field...

the magnetic system of an accelerator with spiral sectors. This device had the parameters k = 9, H_{min} = 11 oe, H_{max} = 300 oe, R_{min} = 45 cm, R_{max} = 65 cm, R_{max} = 65°, R_{max} = 65°, R_{max} = 65°, R_{max} = 10, R_{max} = 45°, R_{max} = 14°. Fig. 1 shows shape and dimensions of a sector. Magnetic measurements were made by a method based on the galvanomagnetic Hall effect. An n-type Ge crystal served as pickup for the Hall electromotive force. Fig. 4 shows the experimentally found azimuthal distribution of the field for a fixed value of the radius and also the sinusoidal line of the period R_{p} + R_{p} which is equal to the period of the magnetic system. For R_{p} = const, the azimuthal distribution can be represented as R_{p} = $R_$

According to these experimental data, the amplitude

 $A = \frac{H(\theta)_{\text{max}} - H(\theta)_{\text{min}}}{H(\theta)_{\text{max}} + H(\theta)_{\text{min}}}$ was equal to 0.2. Further experimental results

are given by Figs. 5 - 8. The compensating field consists of the fields from the compensating coils wound on the lateral surfaces of the two

Card 2/64

X

30098 \$/057/61/031/011/013/019 B125/B102

The magnetic-field...

neighboring sectors. By investigation of the simulated magnetic field, the law of the distribution of the ampere turns of the principal and of the compensating coils was found. Varying the current in these coils, the rate of increase of the magnetic field with respect to radius and amplitudes of modulation can be varied within certain limits. This fact facilitates the development of an accelerator with spiral sectors. There are 11 figures and 4 references: 2 Soviet and 2 non-Soviet. The two references to English-language publications read as follows: K. R. Symon, D. W. Kerst, L. W. Jones, L. J. Laslett, K. M. Terwillinger. Phys. Rev., 103, 1837, 1956; T. Ohkawa. Rev. of Sci. Instr., 29, 108, 1958.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: January 28, 1961

Fig. 1. Geometry of a spiral sector.

Legend: (1) Center of the machine.

Card 3/64

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30098 S/057/61/031/011/013/019 B125/B102

The magnetic-field ...

Legend to Fig. 4: (1) Experimental points, (2) points of the curve A $\sin(2\pi\theta/(\theta_p + \theta_b))$, (3) sector.

Fig. 5. Distribution of the magnetic field along the spiral lines for three sectors.

Legend: (1) Sector.

Fig. 6. Radial distribution of the magnetic field.

Legend: (1) Curve found by direct measurement, (2) curve found from (1) considering the function of azimuthal distribution of the field.

Fig. 7. Azimuthal distribution of the magnetic field in the air gap between sectors.

Legend: (1) Field generated by the principal coil, (2) entire field, (3) field of the compensating coil, (4) sector, (5) air gap.

Card 4/64

X

VOLODICHEV, N.H.; GRISHIN, V.K.; EOVAL SKIY, S.; LOBANOV, Yu.H.;

SAVEHRO, I.A.

Characteristics of the magnetic field of a high-focusing spiral-coil accelerator. Zhur. tekh. fiz. 31 no.11:1350-1357

N '61.

(MIRA 14:11)

1. Moskovskiy gosudarstvennyy universitet.

(Particle accelerators)

(Magnetic fields)

KOVAL'SKIY, S.

Device for testing single piles with a static load. Prom.stroi.i inzh.soor. 4 no.2:58-59 Mr-Ap '62. (MIRA 15:11)

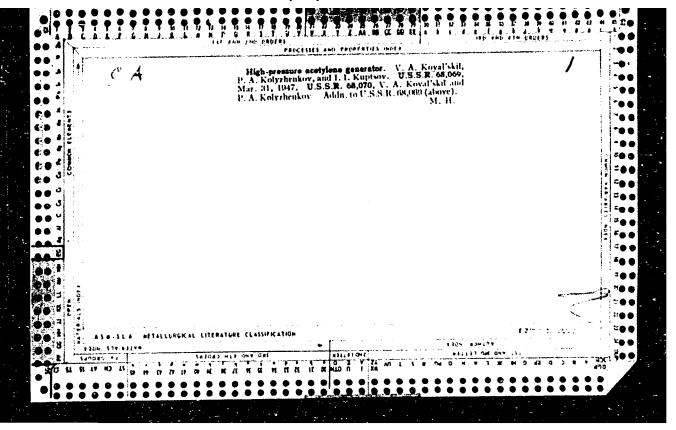
1. Rukovoditel' fiziko-tekhnicheskoy laboratorii Krivorozhskogo filiala Yuzhnogo nauchno-issledovatel'skogo instituta promyshlennogo stroitel'stva.

(Piling (Civil engineering) -- Testing)

KOVAL'SKIY. V. avtomekhanik.

Supporting frames used for lifting front wheels. Avt.transp.
35 no.3:34 Mr '57. (MLRA 10:5)

1.Avtotransportnaya kontora tresta "Krivbassrudstroy". (Lifting jacks)



Trophic innervation of the periosteum. Dop. AN UNSR no. 5:337-341 '51.

(MLRA 6:9)

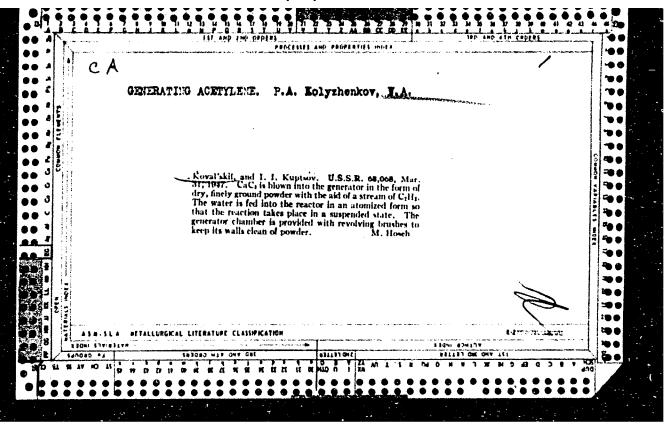
1. Akademiya nauk Ukrayins'koyi RSR (for Kas'yanenko). 2. Bilotserkivs'kyy sil'skohospodars'kyy instytut (for Koval's'skyy).

(Periosteum) (Herves)

KOVAL'SKIY, V.A.; OFITSEROV, D.M.; SHASHKOV, A.N., kand. tekhn.

[Handbook on portable acetylene generators] Rukovodstvo po perenosnym atsetilenovym generatoram. Moskva, Mashgiz, 1963. 114 p. (Bibliotechka avtogenshchika, no.10)

(MIRA 17:4)



KOVALISKIY, V. A. DA 49/49T18

USER/Chemistry-Acetylens Chemistry-Calcium Carbide Dec 48

"An Apparatus for Determining the Acetylene Yield From Calcium Carbide," V. A. Koval'skiy, I. I. Strizhevskiy, All-Union Sci Res Inst for Autogenous Treatment of Metals, 3 pp

"Zavod Lab" Vol XIV, No 12

Describes apparatus in detail. It is less bulky than usual type. Gas volume is 200 liters weight of carbide sample 0.5-0.75 kg. Includes three sketches.

49/49**71**8

STRIZHEVSKIY, I.I., kandidat khimicheskikh nauk; KOVAL'SKIY, V.A., inzhener; SHASHKOV, A.N., kandidat tekhnicheskikh nauk; redakter; MATVEYEVA, L.S., redakter.

[Operation of portable acetylene generators] Ekspluatatsiia perenosnykh atselilenevykh generatorov. Moskva, Gos.nauchno-tekhn.isd-vo mashinostreit. let-ry, 1955. 71 p. (Rukovodiashchie materialy po gazoplamennei obrabetke metallov, no.8).

(Acetylene generators)

5(0)

PHASE I BOOK EXPLOITATION

SOV/2227

Vsesoyuznyy nauchno-issledovatel'skiy institut avtogennoy obrabotki metallov

Proizvodstvo atsetilena dlya gazoplamennoy obrabotki metallov (Production of Acetylene for Flamespraying Metals) Moscow, Mashgiz, 1958. 87 p. (Series: Spravochnyye materialy po gazoplamennoy obrabotke metallov, vyp. 14) Errata slip inserted. 7,000 copies printed.

Comps.: I.I. Strizhevskiy, Candidate of Chemical Sciences and S.G. Guzov, Engineer; Eds.: A.N. Shashkov, Candidate of Technical Sciences and V.A. Koval'skiy, Engineer; Tech. Ed.: A.Ya. Tikhanov; Managing Ed. for Literature on Heavy Machine Building (Mashgiz): S.Ya. Golovin, Engineer.

PURPOSE: This book is intended for persons engaged in the production of acetylene for the purpose of flamespraying metals.

Card 1/5

Production of Acetylene (Cont.)

SOV/2227

13

COVERAGE: The book provides a systematic discussion of the structure of equipment used in acetylene production and their arrangement in installations which prepare and use acetylene to flamespray metals. Rules for servicing equipment, production control and industrial safety measures are also discussed. The book, Obshchaya instruktsiya po proizvodstvy atsetilena (General Instructions for Acetylene Production), published in 1952, served as a basis for reference materials. Rules for the location and construction of acetylene installations and the distribution of equipment are given in accordance with the Giprokislorod (State Institute for the Design and Planning of Oxygen Installations) under the Ministry of the Chemical Industry. No personalities are given. There are no references.

TABLE OF CONTENTS:

Acetylene generators

3 Foreword Fundamental Data on the Production of Acetylene From Calcium 559 Carbide Principal properties of acetylene Preparation of acetylene from calcium carbide

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"acetonization" [addition of acetone] Supplement 7. Sample forms for the registration of cylinders rejected on the basis of their content of porous material [activated charcoal with grain size 1-3.5 mm] Supplement 8. Sample form for checking the state of porous matter supplement 9. Sample form for periodic investigation of cylinder supplement 10. Content of an application for an acetylene-instal lation permit Supplement 11. Content of an application for an acetylene-generator permit	70 270 271 - 72

Production of Acetylene (Cont.)

SOV/2227

Supplement 12. Standard specifications for the construction of an acetylene installation

Supplement 13. List of official materials (standards, technical conditions, regulations, instructions) 86

AVAILABLE: Library of Congress

Card 5/5

Tm/bg 8-17-59

KOVAL'SKIY, V.A.

SOV-133-58-3-11/19

AUTHORS:

Strizhevskiy, I.I., Candidate of Chemical Sciences, and

Kovaliskiy, V.A., Engineer

TITLE:

Acetylane Conerators for Processing Fine Carbide and Carbide Dust (Atsatilancvyya generatory dlya pararabotki karbidnoy

melochi i pyli)

PERIODICAL:

Svarochnoye proizvodstvo, 1958, pp 35-38 (USSR)

ABSTRACT:

Information is presented on design of new generators for processing fine-granulated carbide, developed at VNITAvtogen; 1) 'GP3-35' (Figure 1) of medium pressure and discontinuous action for 2/8 granulation; 2) "ANK" for fine and coarse carbide; 3) "PG-35" (Figure 4) for processing carbide duet; 4) "GND-35" for Sarbide of 2 to 80 mm granulation, 5) stationary

"ASS" generator with an additional device for flooding fine carbide and dust by vortex water motion. The enumerated

generators ensure safe work processes. There are 8 diagrams.

ASSOCIATION:

VNIIAvtogen

1. Gas generating systems-Design 2. Acetylenes-Production

3. Carbides---Applications

Card 1/1

STRIZHEVSKIY, Iosif Isaakovich; GUZOV, Samson Getsovich; KOVAL!SVIV...
Veniamin Aronovich; GLIZMANENKO, D.L., kand.tekhn.nauk, red.;
SOBOLEVA, G.W., red.izd-va; MODEL, B.I., tekhn.red.

[Acetylene producing and distributing centers] Atsetilenovye stantsii. Izd.2., perer. i dop. Moskva, Gos.nauchno-tekhn. izd-vo mashinostr.lit-ry, 1959. 291 p. (MIRA 12:10) (Acetylene)

KOVAL'SKIY, V.A

PHASE I BOOK EXPLOITATION

SOV/4976

- Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut avtogennoy obrabotki metallov
- Ekspluatatsiya perenosnykh atsetilenovykh generatorov (Operation of Portable Acetylene Generators) 2d ed., rev. and enl. Moscow, Mashgiz, 1960. 78 p. Errata slip inserted. 9,000 copies printed. (Series: Spravochnyye materialy po gazoplamennoy obrabotke metallov, vyp. 18)
- Compilers: I. I. Strizhevskiy, Candidate of Chemical Sciences, and V. A. Koval'skiy, Engineer; Ed.: A. N. Shashkov, Candidate of Technical Sciences; Ed. of Publishing House N. S. Stepanchenko; Tech. Ed.: A. F. Uvarova; Managing Ed. for Literature on Heavy Machine Building: S. Ya. Golovin, Engineer.
- PURPOSE: This booklet is intended for foremen, gas welders, and cutters in industrial plants, building organizations, and machine repair shops.

Card-1/4

Operation of Portable Acetylene Generators

SOV/4976

COVERAGE: The booklet contains concise information of the production of acetylene from calcium carbide and on the arrangement of acetylene generators. Portable acetylene generators manufactured in the USSR are described, and information on their technical characteristics, installation, use, repair, and maintenance is presented. Problems of storing and uppacking calcium carbide are discussed and safety rules for the operation of portable acetylene generators are outlined. D. M. Ofitserov and D. I. Tesmenitskiy helped in the preparation of the manuscript. There are 9 references, all Soviet.

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Card 2/4	

KOVAL'SKIY, Veniamin Aronovich; OFITSEROV, Dmitriy Maksimovich; SHELECHNIK, Moisey Markovich; MOKRETSOV, A.M., red.

Thesign and operation of equipment for the production of actylene] Ustroistvo i ekspluatatsiia oborudovaniia dlia polucheniia atsatilena. Moskva, Vysshaia shkola. 1965. 187 p. (MIRA 18:8)

KOVAL SKY, VP

U.S.S.R. / Human and Animal Physiology. Metabolism.

Abs Jour: Ref Zhur-Biol., No 5, 1958, 21954.

Author : Kovalsky V. P., Kapner R. B.

Inst : Not given.

Title : Adaptive Changes of Certain Dehydrgenases and

and Arginases in the Organism of Animals.

Orig Pub: Dokl. AN. S.S.S.R., 1957, 112, 5, 905-908.

Abstract: Chinchilla rabbits weighing 2.7-3kg were fed,

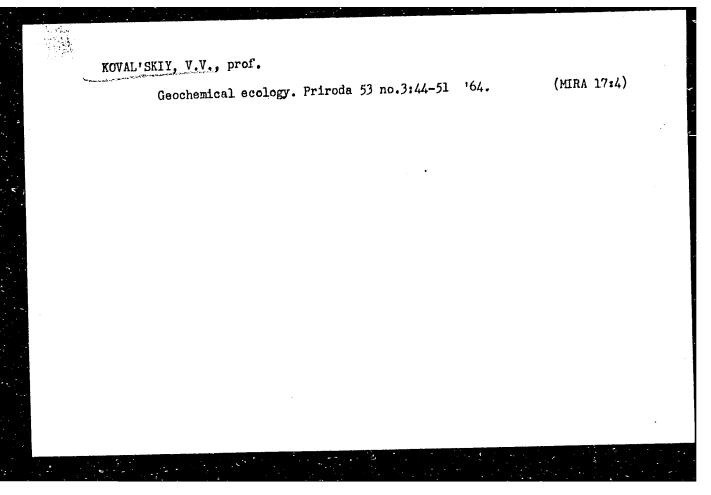
in the course of 30-40 days, different rations (cereals and vegetables). The rations contained, in effect, equivalent amounts of nutritional units and digestible proteins. Following the cereal ration the intensity of the dehydrogenation processes (the activity of succindehydrogenase, dehydrogenase, alpha-gly-

Card 1/2

24

- 1. KOVAL'SKIY, V. S., Prof.
- 2. USSR (600)
- 4. Cranes, Derricks, Etc.
- 7. Wedge grop for dill-protecting devices of cranes. Vest.mash., 33, no. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.



ACCESSION NR: AT4032221 \$/3089/63/000/005/0161/0168

AUTHOR: Koval'skiy, V. V.; Ponomarenko, I. N.

TITLE: Seasonal changes of the geographic position and intensity of the planetary high-level frontal zone over Siberia and the Far East

SOURCE: AN UkrSSR. Mezhduvedomstvenny*y geofizicheskiy komitet. Geofizika i astronomiya; informatsionny*y byulleten', no. 5, 1963, 161-168

TOPIC TAGS: meteorology, planetary high-level frontal zone, climate, climatology

ABSTRACT: Data have been compiled on the frequency of appearance and intensity of the planetary high-level frontal zone over Siberia and the Far East in January, April, July and October. Conclusions are drawn concerning the peculiarities of seasonal changes of the geographic position of the climatological planetary high-level frontal zones and their relationship to atmospheric processes. Maps of the frequency of the planetary high-level frontal zone are given (Figures 1 and 2 of the Enclosure). It is shown that the frequency of the planetary high-level frontal zone over different latitudes in Siberia and the Far East has characteristic seasonal peculiarities. In winter and in the transitional seasons the planetary high-level frontal zone is situated predominantly in a single zone which

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ACCESSION NR: AT4032221

can be considered the climatological planetary high-level frontal zone, but in summer there are two such zones. The position of the zones of high frequency and of climatological planetary high-level frontal zones varies from season to season with a change in synoptic processes. In the winter and spring it is oriented from west-southwest to east-southeast from latitude 55-670 near the Ural range to 400 over the Far East and the Pacific Ocean. The zone has the same orientation in autumn but is situated 2-30 farther north over western Siberia and 6-70 over the Far East and the Pacific Ocean. In the summer the principal part of the zone is displaced far to the north and lies in the extreme northern regions of Siberia. The seasonal change of the position of the zone over the ocean and continent is different. Over the Pacific Ocean and the Far East the most northern position is assumed in the autumn and the most southern in winter and spring. Over the mainland the most northern position is in summer and the most southern in winter. The variations of the zone over northern regions attain 6-80, but over continental regions range up to 20-250. The character of the longitudinal seasonal changes in intensity of the zone also differs. The insignificant frequency of appearance of the extratropical branch of the planetary high-level frontal zone over Central

Card 2/5

VASIL'YEV, Viktor Grigor'yevich; KOVAL'SKIY, Vitaliy Vladimirovich;
CHERSKIY, Nikolay Vasil'yevich; BONDARENKO, V.I., red.;
ICNAT'YEV, I.F., red. izd-va; FARNIKOV, Ye.S., tekhm. red.

[Origin of diamonds] Problema proiskhoshdeniia almazov.
IAkutsk, IAkutskoe knizhnoe izd-vo, 1961. 151 p.

(MIRA 15:3)

(Diamonds)

KOVAL'SKIY, V.V.

Classification of certain characteristic types of kimberlites of Yakutia. Geol. i geofiz. no.2:61-76 '61. (MIRA 14:5)

1. Yakutskiy filial Sibirskogo otdeleniya AN SSSR. (Yakutia—Kimberlite—Classification)

KOVAL'SKIY, V.V.

Composition of kimberlite bodies as revealed by the studies of the Muna and Olenek diamond regions. Trudy IAFAN SSSR. Ser.geol. no.8:39-73 '62. (MIRA 15:7)

(Yakutia--Kimberlite)

KOVALIJKIY, V. V.

Dissertation defended for the degree of Candidate of Geologo-Mineralogical Sciences at the Joint Academic Council on Geologo-Mineralogical, Geophysical, and Geographical Sciences; Siberian Branch 1962

"Kimberlite Rocks of Yakutiya and Main Principles of Their Petrographic Classification."

Vestnik Akad. Nauk, No. 4, 1963, pp 119-145

KOVAL'SKIY, V.V.

Interrelation of vent and vein facies of kimberlite rocks as revealed by the Olenek diamond-bearing region. Nauch.soob. IAFAN SSSR no.7:89-98 162.

(Yakutia---Kimberlite)

VINOGRADOVA, Z. A.; KOVALISKIY, V. V.

On the chemical elementary composition of Black Sea plankton. Dokl. AN SSSR 147 no.6:1458-1460 D 1626

(MIRA 16:1)

1. Odesskaya biologicheskaya stantsiya Instituta gidrobiologii AN UkrSSR i Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo AN SSSR. Predstavleno akademikom A. P. Vinogradovym.

(Black Sea-Plankton)

KOVAL'SKIY, V.V.; SHUMKOVA, I.A.

Adaptive changes in the enzymes of the mammary gland in cows. Dokl. AN SSSR 152 no.5:1243-1246 0 163. (MIRA 16:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhivotnovodstva. Predstavleno akademikom A.I.Oparinym.

KOVAL'SKIY, V.V.; SHUMKOVA, I.A.

Adaptive variations in lactic phosphatases and the mammary glands in cows. Dokl. AN SSSR 152 no.6:1467-1470 0. '63.

(MIRA 16:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhivotnovodstva. Predstavleno akademikom A.I. Oparinym.



KOVAL'SKIY, V.V.

Role of trace elements in animal husbandry and urgent tasks in studying them. Zhur. VKHO 8 no.6:646-654 '63. (MIRA 17:2)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni Lenina.

GOLOLOBOV, A.D., kand. biol. nauk; KOVAL'SKIY, V.V., prof., red.; DARDYRENKO, A.A., red.

[Methodological recommendations on the determination of trace elements in soils, plant and animal organisms] Metodicheskie rekomendatsii pc opredeleniiu mikroelementov v pochvakh, rastitel mykh i zhivotrykh organizmakh. [n.p.] Otdel nauchno-tekhn. informatsii VIZha, 1963. 61 p.

(MIRA 17:8)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut
zhivotnovodstva. 2. Chlen-korrespondent Vsesoyuznoy akademii
sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Koval'skiy).

KOVAL SKIY, V.V.; MASLYANAYA, M.K.

Copper deficiency in cereal plants grown on reat soils. Agrokhimia no.4:84-95 Ap *64. (MIRA 17:10)

l. Institut geokhimii i analiticheskoy khimii imani Vernadskogo AN SSSR.

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TITLE: Biological role of vanadium in Ascidians

SOURCE: Uspekhi sovremennoy biologii, v. 60, no. 1, 1965, 45-61

TOPIC TAGS: vanadium, physiology

ABSTRACT: Ascidings are enganisms that selectively concentrate vanadium from sea water and food (microorganisms, detritus, and plankton organisms), and as such are of special interest in the analysis of the biological role of canadium. The authors survey the liter ture and their owners on the dynamics of vanadium in the blood of Ascidians, in which this element is challzed shiefly in the blood cells. The observed oxidation-reduction conversions of hemolysates of Ascidian blood cells are evidently related to a transfer of electrons with the sid of a vanadium system. It is proposed that the physiological role of vanadium in the Ascidian organism is related to oxidation-reduction processes. Orig. art. has: 9 figures, 5 tables and 1 formula. [JiRS: 34,186]

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VOSERSSENSKAYA, V.B.; KOVALISKIY, V.V.; NIKRITOV, E.N.; PARIMOVA, T.P.

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KOVAL'SKIY, V.V., prof. (Moskva)

Most outstanding Soviet biochemist. Priroda 54 no.12:116-117
D *65. (MIRA 18:12)

KOVALISKIY, V.V., prof.; VOROTNITSKAYA, I.Ye.

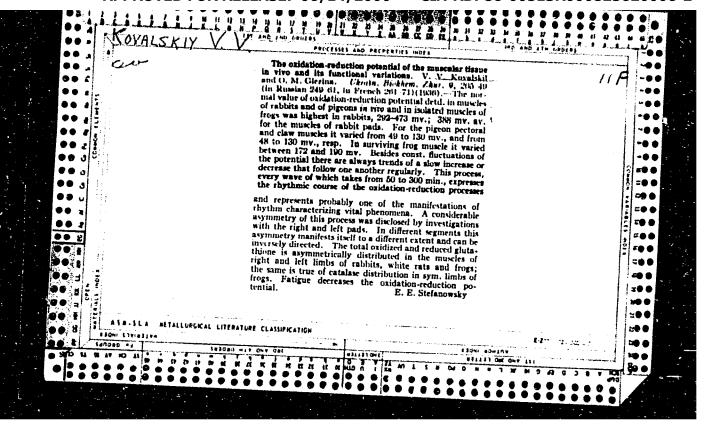
Uranium in the silt of Lake Issykkul'. Priroda 54 no.8:79-80 Ag '65. (MIRA 18:8)

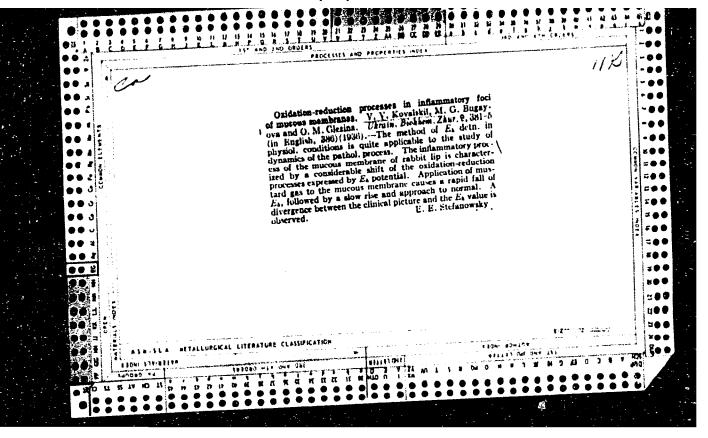
1. Institut geokhimii i analiticheskoy khimii im. V.I. Vernadskogo AN SSSR, Moskva.

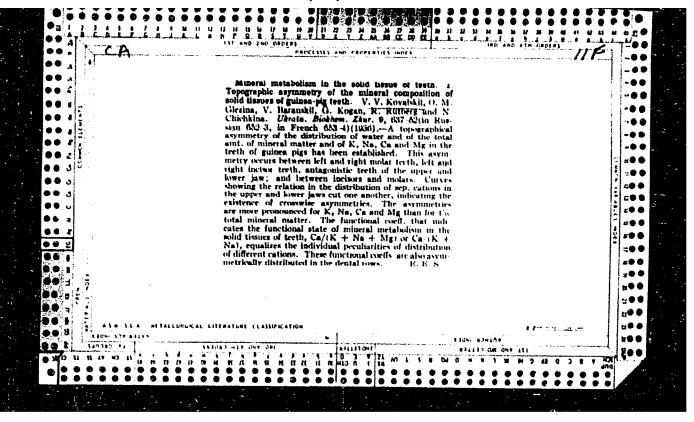
KOVALISKIY, V.V.; NEZATEVA, L.T. (Moskva)

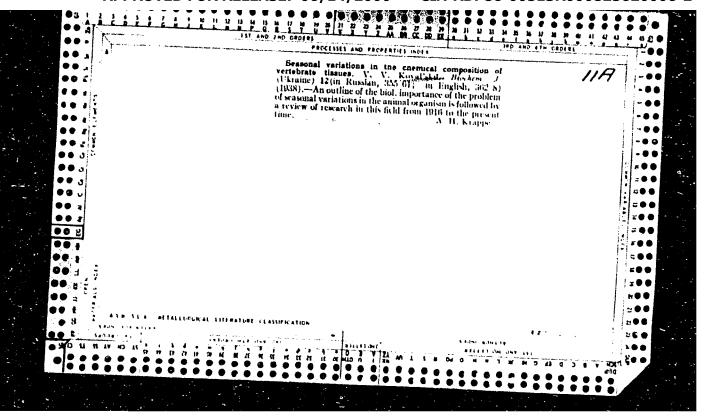
Biological role of vanadium in ascidians. Usp. sovr. biol. 60 no.1:45-61 Jl-Ag *65. (MIRA 18:8)

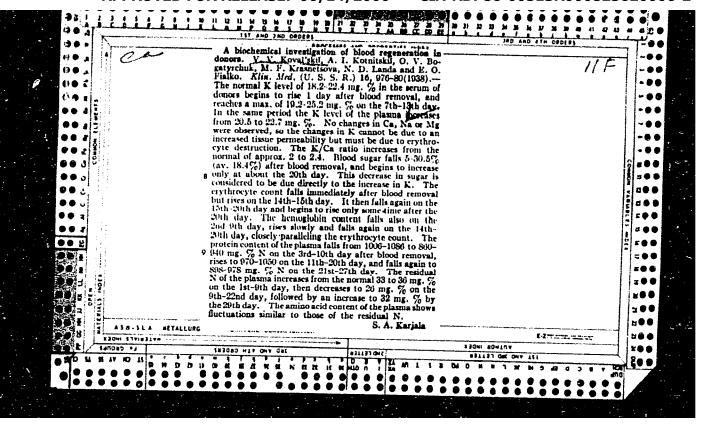
1. Institut geckhimii i analiticheskoy khimii im. V.I. Vernadskogo AN SSSR.

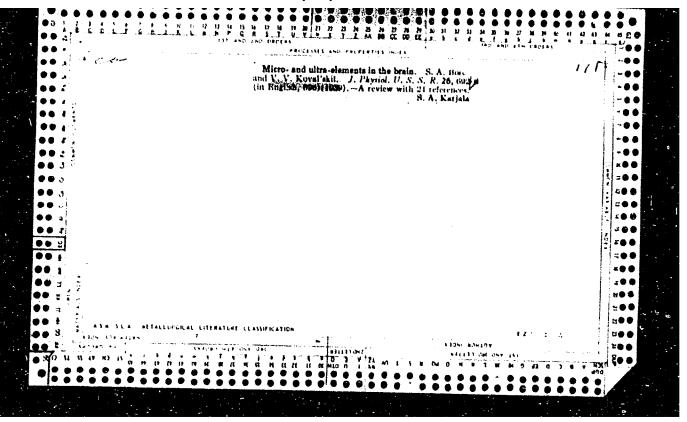












Conference on comparative chemistry (p. 364) by Kovalsky, V. V.

SO: Advances in Kodern Biology (Uspekhi Sovremennoi Biologie) Vol. XII, No. 2, 1940

